

According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5	03	03/08/2021	KS001

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name:	kexcelled 3D printing filament
Product code:	PLA K5
Product Use:	A filament to be used in 3D printing applications.
Supplier:	NorthBridge New Material Technology(Suzhou) Co.,Ltd
Address:	Building# B2, Chaoyang Industrial square, Caohu Industrial
	Park, Xiangcheng District, Suzhou. CN.
Responsible/issuing person:	wilson@northbridge3d.com
Emergency telephone numbers:	+86-(0512)-65801831
2. HAZARDS IDENTIFICATION	
Health Effects:	Prolonged and /or repeated contacts: Risk of skin
	sensitization. When handled at high temperatures, can cause
	serious burns.
Potential Health Effects:	Eye contact: Contact with eyes may cause irritation.
Skin contact:	Substance may cause an allergic skin irritation.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea,
	vomiting and diarrhea.
Inhalation:	Inhalation of dust may cause shortness of breath, tightness
	of the chest, a sore throat and cough. Low hazard for usual
	industrial or commercial handling.
Target organ effects:	There were no target organ effects noted following
	ingestion or dermal exposure in animal studies.



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3. COMPOSITION/INFOR	MATION ON INGREDIEN	ITS	
Chemical name:	Polylactic resin		
CAS Number:	9051-89-2		
Weight:	>92%	>92%	
OSHA Exposure Limits:	None		

ACGIH Exposure Limits: None

All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

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Other standards:
This material can generate Particulates Not Otherwise

Classifiable (PNOC).
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The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m3 for total dust and 5 mg/m3 for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m3 for inhalable particulates and 3 mg/m3 for respirable particulates.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. Call a physician immediately.
Skin contact:	Rinse immediately with plenty of water for at least 15
	minutes. If skin irritation persists, call a physician. Cool skin
	rapidly with cold water after contact with hot polymer.
Eye contact:	Rinse immediately with plenty of water, also under the
	eyelids, for at least 15 minutes. Call a physician immediately.
Ingestion:	Drink water as a precaution. Never give anything by mouth to
	an unconscious person. Do not induce vomiting without

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	medical a	dvice. Call a physician imm	ediately.	
Notes to physician:	Treat sym	ptomatically		
5. FIRE-FIGHTING MEASU	IRES			
Flammable properties:	Autoigni	tion temperature: 388 $^\circ\!\!\mathbb{C}$		
Suitable extinguishing m	edia : Foam. W	ater. Carbon dioxide (CO2)	. Dry chemical.	
	Alcoholr	esistant foams are preferre	ed if available.	
	General-	purpose synthetic foams (i	ncluding AFFF) or protein	
	foams m	ay function, but much less	effectively.	
Hazardous decompositio	n: Burning	Burning produces obnoxious and toxic fumes Aldehydes		
	products	Carbon monoxide (CO) ca	rbon dioxide (CO2).	
Special protective equipr	nent: As in any	As in any fire, wear self-contained breathing apparatus for		
	fire fight	fire fighters pressure demand, MSHA/NIOSH (approved or		
	equivale	nt) and full protective gear		
Under fire conditions:	Cool con	tainers / tanks with spray v	water. Water mist may be	
	used to a	cool closed containers.		
Other information:	Fine dus	dispersed in air may ignite	e. Risks of ignition	
	followed	by flame propagation or s	econdary explosions	
	shall be j	prevented by avoiding accu	imulation of dust, e.g. on	
	floors an	d ledges.		

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. See Section 8. Remove	
	all sources of ignition. Avoid dust formation. Avoid contact	



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	with	n skin and eyes. Sweep up t	o prevent slipping hazard.	
Environmental precau	Itions: Do r	not flush into surface wate	r or sanitary sewer system. Do	
	not	allow material to contamir	nate ground water system.	
Methods for cleaning	up: Sho	vel into suitable container	for disposal.	
7. HANDLING AND ST	ORAGE			
Safe handling advice:	Avo	id contact with skin and ey	es. Workers should be	
	prot	tected from the possibility	of contact with molten	
		erial during fabrication. Lo	w hazard for usual industrial	
	or c	or commercial handling. Use personal protective		
	equ	ipment.		
Storage conditions:	Stor	e in cool place. Keep at ter	mperatures below 50°C(122F)	
	Nos	special restrictions on stora	age with other products.	
Precautions:	Nos	special precautions require	d.	
8. EXPOSURE CONTRO	DLS / PERSONAL PROTE	CTION		

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/face protection:	Wear safety glasses for general purpose.
Hand protection:	Wear gloves (product handled in molten state).
Skin and body protection:	Wear protective clothing (product handled in molten state).
Respiratory protection:	In case of dust formation, wear a dust mask.
	In case of insufficient ventilation, wear suitable respiratory
	equipment.
Hygiene measures:	Avoid contact with skin, eyes, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES



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Product code:	Revision Number:	Revision date:	MSDS No.:
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Appearance:	Clear, t	ranslucent, opaque, filan	nents. Solid at room
	temper	ature.	
Color:	Clear,T	ranslucent, Opaque.	
Odour:	Sweet.		
pH:	Not ap	olicable.	
Vapor pressure:	Not de	termined.	
Vapor density:	Not de	termined.	
Evaporation rate:	Not det	ermined.	
Density:	>1.20g/	/cm3	
Boilingpoint/range:	Not ap	Not applicable. Decomposition temperature: 280 °C (536F).	
	Melting	g point/range:155 – 185 °	°C.
Water solubility:	Insolub	le.	
Solubility in other solven	ts: Noneki	Noneknown.	
10. STABILITY AND REACT	ΓΙVΙΤΥ		
Stability:	Stable	under recommended sto	rage conditions. Conditions
	to avoi	d:Temperatures above 23	30°C (446F).
Materials to avoid:	Oxidizi	ng agents. Strong bases.	
Decomposition:	Burning	g produces obnoxious an	d toxic fumes. Aldehydes.
	Carbon	monoxide (CO). Carbon	dioxide (CO2).
Polymerization:	Not ap	olicable.	

11. TOXICOLOGICAL INFORMATION

See section 3 for potential health effects. For detailed toxicological data, write or call the address or emergency number shown in section 1.



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12. ECOLOGICAL INFORM	ATION		
Mobility:	No data a	vailable	
Bioaccumulation:	Does not	bioaccumulate. Inherently	biodegradable
13. DISPOSAL CONSIDERA	ATIONS		
Controlled incineration or	landfill according to loca	l, state or national laws an	d regulations concerning
health and pollution.			
14. TRANSPORT INFORM	ATION		
IMDG:	Not regul	ated.	
ICAO/ IATA:	Not regul	ated	
15. REGULATORY INFORM	IATION		
(Not meant to be all inclus	sive—selected regulations	represented).	
NOTICE: The information herein is presented in good faith and believed to be accurate as of the print			
date shown above. However, no warranty, express or implied is given. Regulatory requirements are			
subject to change and ma	y differ from one locatior	n to another; it is the buyer	's responsibility to
ensure that its activities c	omply with federal, state	or provincial, and local lav	vs. The following specific
information is made for the purpose of complying with numerous federal, state or provincial, and			te or provincial, and

local laws and regulations. See other sections for health and safety information.

WEEE/ROHS DIRECTIVE:	CONFORMS
INVENTORIES:	EINECS (EU): Conforms
TSCA (USA):	Conforms
DSL (Canada):	Conforms



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AICS (Australia):	Conforms		
ECL (Korea):	Conforms		

16. OTHER INFORMATION

The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and

experience. No liability can be assumed for the accuracy and completeness of this information.